CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

An ISO 9001:2008 Certified Company

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/BBU/W.No.01/WMM/Gradation/2017-18

01.12.2017

TEST REPORT ON GRADATION OF WET MIX MACADAM

* Customer	:	**Asst. Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. B.B. Umesh,** #345/1, Anjaneya temple Bettahalasoor, Bangalore.
* Name of Work	:	Improvements to roads at Govt Hospital road premises in Ward No.01 of Yelahanka Sub Division, BBMP, Bangalore.
* Reference	:	EE/YNK.D/EPMT-8/W.O/74/2017-18 Dated: 21.06.2017
Sample ID	:	Wet Mix Macadam
Technical Reference	:	IS 2386 (part-1)1963 (RA-2011)
Date of Testing	:	01.12.2017

Oven Dry Wt (gm): **5000**

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits As per Morth Table 400-13
53	0	0	0	100	100
45	160	160	3.2	96.8	95-100
22.4	1535	1695	33.90	66.10	60-80
11.2	1020	2715	54.30	45.70	40-60
4.75	560	3275	65.50	34.50	25-40
2.36	490	3765	75.30	24.70	15-30
0.600	475	4240	84.80	15.20	8-22
0.075	630	4870	97.40	2.60	0-8

*Information is furnished by the Customer/Representative.

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Note:

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⇒The results indicated above are based on the tests carried out on the samples received in the laboratory.

⇒Any Query regarding the report must be reported within 30 days from the date of testing.

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Job No.: CTCE/BBMP/BBU/W.No.01/WMM/AIV/2017-18 01.12.2017

TEST REPORT ON IMPACT VALUE OF AGGREGATE

* Customer	:	**Asst. Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. B.B. Umesh,** #345/1, Anjaneya temple Bettahalasoor, Bangalore.
* Name of Work	:	Improvements to roads at Govt Hospital road premises in Ward No.01 of Yelahanka Sub Division, BBMP, Bangalore.
* Reference	:	EE/YNK.D/EPMT-8/W.O/74/2017-18 Dated: 21.06.2017
* Sample ID	:	Wet Mix Macadam
Technical Reference	:	IS : 2386(Part -4)-1963 (RA-2011)
Date of Testing	:	01.12.2017

Sl No.	Details	Trial No. 1	Trial No. 2	Average
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	387	389	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	82	84	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	305	305	
4	Aggregate Impact value = percent fines 100* (W2/W1)%	21.19	21.59	21.39

*Information is furnished by the Customer/Representative.

Comments:

→ Maximum allowable Aggregate Impact value for Wet Mix Macadam is 30%

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Job No.: CTCE/BBMP/BBU/W.No.01/WMM/Shape.T/2017-18 01.12.2017

TEST REPORT ON FLAKINESS INDEX & ELONGATION INDEX OF COARSE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. B.B. Umesh,** #345/1, Anjaneya temple Bettahalasoor, Bangalore.
* Name of Work	:	Improvements to roads at Govt Hospital road premises in Ward No.01 of Yelahanka Sub Division, BBMP, Bangalore.
* Reference	:	EE/YNK.D/EPMT-8/W.O/74/2017-18 Dated: 21.06.2017
* Sample ID	:	Wet Mix Macadam
Technical Reference	:	IS 2386(Part 1) 1963 (RA 2011)
Date of Testing	:	01.12.2017

Sl.No.	Description	Result
1	Flakiness Index	12.15%
2	Elongation Index	13.68%
3	Combined Flakiness & Elongation Index	25.83%

*Information is furnished by the Customer/Representative.

Comments:

→ Maximum allowable Flakiness & Elongation Index for Wet Mix Macadam is 30%

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Job No.: CTCE/BBMP/BBU/W.No.01/BC/Stripping/2017-18

11.12.2017

TEST REPORT ON STRIPPING VALUEOF ROAD AGGREGATES (STATIC IMMERSION TEST)

* Customer	:	**Asst. Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. B.B. Umesh,** #345/1, Anjaneya temple Bettahalasoor, Bangalore.
* Name of Work	:	Improvements to roads at Govt Hospital road premises in Ward No.01 of Yelahanka Sub Division, BBMP, Bangalore.
* Reference	:	EE/YNK.D/EPMT-8/W.O/74/2017-18 Dated: 21.06.2017
Technical Reference	:	IS: 6241
* Type of Mix	:	Bituminous Concrete
Date of Testing	:	11.12.2017

Type of binder : 60/70

Percentage of binder used : 5.00% by wt.

Total weight of aggregate : 200 g

Total weight of binder : 10.00 g

Temperature of water-bath : 40° C

Observation Number	Stripping, Percentage	Average, Percentage	Average Retained Coating, %
1	3.3	3.40	96.60
2	3.4		
3	3.5		

*Information is furnished by the Customer/Representative.

Comments:

→ Minimum allowable Aggregate retained coating for Bituminous Concrete is 95%

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